

VARIETY OF SCIENTIFIC BASIS OF VITAMIN-MINERAL MIXTURES FOR ENRICHMENT OF BREAD PRODUCTS

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Abstract:

Creation of recipes and technology for making new varieties of bread and bakery products using local raw materials, improving the chemical composition and rheological properties of dough using powder from local secondary raw materials, improving the quality, nutritional and biological value of bread and bakery products.

Keywords: Wheat, wheat flour, bread, food products, trace elements, vitamin and mineral mixtures.

Annotatsiya:

Mahalliy xomashyolardan foydalanib, non va non mahsulotlari yangi navlarini tayyorlash restsepturalari va texnologiyasini yaratish, maxalliy ikkilamchi xomashyodan olingan kukun yordamida hamirning kimyoviy tarkibi, reologik xususiyatlarini yaxshilash, non va non mahsulotlarining sifat ko'rsatkichlari, ozuqaviy va biologik qiymatlarini ko'tarishdan iborat.

Kalitso'zlar: Bug'doy, bug'doy uni, non, oziq-ovqat mahsulotlari, mikroelementlar, vitamin-mineral aralashmalari.

Аннотация

Создание рецептур и технологии приготовления новых сортов хлеба и хлебобулочных изделий с использованием местного сырья, улучшение химического состава и реологических свойств теста с использованием порошков из местного вторичного сырья, повышение качества, пищевой и биологической ценности хлеба и хлебобулочных изделий.

Ключевые слова: Пшеница, пшеничная мука, хлеб, продукты питания, микроэлементы, витаминно-минеральные смеси.

Introduction

When you are a member of the U.S., you will be able to see if you have a good time, and then you will be able to see the light of the earth, and you will be able to see the light of the world.

The animation of energy is a bilana'minlaydigan biologik oxideanishda faol ishtirok etadi.

This element's mnbai ham hayvonot, ham plant mannabalaridann iboror oziq-ov ot hisobladi.

Oholining ossiosi zig-ov atmahsulotlari o'edal-ari ekannidobg a olsak, ular tarribida temir

moddasi inson tansitomonidan h esm bo'lmaydigann uch valentli shaklda mavjud bo'lib, rotsiodagi this element's deficiency of the element.

Bundhan tasqari, ozlashuvchan iron va his three valentli heddann two valentli h'laatga o'tishi jaray oyonida ishtirok etadigan mikroelementlarning deficiencywidely tarrows: C, E, B 12, B6 vitaminbee, foliy kislfireasi va selen elementalbee.

Ichak t arkibida 10% dann ko'p bo'lmagann iron mod odod o'rasi sinstallation hisobga olsa, 10 mg for male algae, tug'ish yoshidagi ollar for 18-20 mg, homiledor va nursing moonollar For this element, it is nottransmitted(25 -27 mg).

Oddiy dietdn keraclimate friendrddagi ownshtirilaothorn ironis the death of another n iron faqat this microorganismelement r bilan boyitilgn ovtlardan f and you can do it. So bli, TheSisa Federa cylinder is a cylinder of cylinders or cylinders of cylinders, and the cylinder of the cylinder is a cylinder of cylinders so ti asosla rining ustuvor y'nalishlari and The Sisia Federation of Si b sh de vla t se nitriya xodiml rining ri consumption of crops (un and no n moths) when workingb output is widely eaten n, iron and bshq microorganismsr bilan boyitilgn moa hsulla r ishlab outputn ibor t.

The studyis ot maqsamuva mufiq, nten mahsulotlbee va bug'doy unini mikroelementla bilan boyitishning eng sarali method - iron va B vitaminlari (B1, B2, B6, PP, pp, phyliy kisl o'z ichiga olgan maxsus vit amin-mineral aralashmalaridann foydalannish tanlandi. Shu maqseda taribida temir moddasi anniqlann mann m andel vitamin-miner arar ar ashmaritayyoralandi. The hotel is located in the heart of the historic centre of the united states, close to the historic centre of the country, close to the historic centre of the country. we did the following anann 100 g nannidagi tarkibni ned a tutadigan tablargaia. Tiamin 0.3 - 0.5 mg, riboflavin 0.15-0, 25 mg, B6 vitmini 0.3-0.5 mg, vitamin PP 3.0-5.0 mg, foliy kislfireace 0.03-0.06 mg, iron 3-4 mg.

I'm going to play nbalary:

- elementar electrodefromlithic iron (J-E);
- ikki valentli temir sulfat monogidrat $\text{FeSO}_4 \times \text{H}_2\text{O}$ (SJ-M);
- ikki valentli temir sulfat geptagidrat $\text{FeSO}_4 \times 7\text{H}_2\text{O}$ (SJ-G).

B1, B2, B6, PP vitaminlbee, foliy kislossi polivitaminli premix shaklida model aarashmalariga included. The hotel is located in the heart of the historic centre of the city, closeto the historic centre ofthe city, close to the historic centre ofthecity. In the latter case, the presence of theIURE could close to the historic centre of the city, close to the historic centre of thecity.

Vitamin-mineris a member of theGoverning Body of Jehovah'sWitnesses, polivitamino acid premix, assyrianorbin kislfireacid, tashuvchisi sifa- bug'doy uni (VMA No. 1) yoki mlltindex (VMA No. 2 va VMA No3) b ahsulotlarni b orishj ar ay oyoy osirecipe kompanent (tashuvchisi) bilan ishlatiladigann qo'shimchalarni bosqichma-bosqich dilution tasdiqlanngann texn The hotel is located in the heart of the historic centreof the world, close to the historic centre of the world, closeto the historic centre ofthecountry.

Model vitamin-miner al ar al ashm al aridagi vitaminlar v a temir birikmal arining tarkibi 1-jadvalda keltirilg an.

Model arnashmagivitaminlar va iron accumulationedarining torkibi

Vitamin va minerallar	Miqdori g/100g			
	Nazorat (polivitaminli i premixo)	VMA No1	VMA No2	VMA No3
B1	3.95	3.14	2.22	1.74
B2	3.57	2.83	2.00	1.57
B6	4.62	3.67	2.59	2.03
PP	38.89	30.91	21.83	17.09
Foline kislotaif	0.61	0.48	0.34	0.27
Elementar electricalolitic iron	-	20,50	-	-
Two inalentli iron sulfat monogidrat	-	-	43,87	-
Two inalentli iron sulfat geptahydrationat	-	-	-	56,05

Ishlab chiqarish jaraynida ommaviy iste'mol yleadigan ozig-o vqat mahsulotlarini vitaminl ar bilan boyitish - bu aholi vitamin holatini yaxshilaShning zamonaviy, economicsodiy jihatdan eng fo ydali, samarali va physicsologik usuli. Sano tirivojlangan mamlakatlarda wide tarqalgan ishlab chiqauvchilar t ashabbusi bilan free yoki ixtiyoriy boyitish aholi tomonidan mikroelementlarni developmentasligi x avfining pastligi sharoitida q o'llaniladi. Iste'mol mahsulotlarini boyitish deyarli har doim majburiy va qonuniy ravishda mustahk amlanngan; aholining can be maqsadli boyitish majburiy va ixtiyoriy b. Ommaviyiste'mol yleadigan ozig-o vqat mahsulotlarini majburiy boyitish samaradmezonl ari - this aholi tomonidan ma'lum vitaminlar iste'molining k o'p ayishi, ayrim mikroelementlarni etarli d arajada iste'mol qilmaydigan odamlarning nisbiy sonining kamayishi, aholining t a'min o tining yaxshilanishi, mikroelementlar bilan (qon darajasi b o'yicha), ba'zi ovqatl anishga bog'liq kasalliklar bimarkerlarining yaxshilanishi, tug'ma nuqsonlar (defect a sab naychasi) bilan kasallanishning kamayishi. Xavf - foyda koeffitsientini baholash unni B vitaminlari bilan majburiy boyitish xavfsizligi to' G'risida guvohlik beradi. Thehotel is located in the heart of the historic centre of the city, close tothe historic centre of the city,closeto the historic centre of thecity. minlar darajasi, vitaminlar shakllari), andmmo boyitish Rossiya Federatsiyasi ishlab chiq the hotelis locatedin the heart of the historic centre ofthe city, close to the historic centre of thecity. Aholining boyitilgan ozig-o vqat mahsulotlarining afzalliklarit o'g'risida eta rli m a'lumotga ega emasligi va bunday mahsulotlarni tanlashda a superiority y o'absence sh aroitida qonunchilikda konsolidatsiya e e va yoki daily majburiy boyitishni tartibg a slarynk me'yoriy hujjatlarni qabulmek zarurati tug'iladi. ahliningk o'p part B vitaminlari b o'lgan mahsulot (non, milk), ularning deficiencyasligi k o'pincha R o ssiy a aholisida uchra.

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